

UNITED STATES PATENT AND TRADEMARK OFFICE
CERTIFICATE OF CORRECTION

PATENT NO. : 7,083,089 B2
APPLICATION NO. : 10/761752
DATED : August 1, 2006
INVENTOR(S) : W. Dale Hopkins

Page 1 of 2

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

In column 10, line 41, in Claim 5, delete “off line” and insert -- off-line --, therefor.

In column 11, line 3, in Claim 6, delete “ $A = \text{PIN}' \cdot u(\text{mod } N)$,” and insert
-- $A = \text{PIN}'^{-1} \cdot u(\text{mod } N)$, --, therefor.

In column 11, line 12, in Claim 6, after “ $t = \text{PIN}'^e(\text{mod } N)$ ” insert -- ; --.

In column 11, line 29, in Claim 7, delete “t” and insert -- t', --, therefor.

In column 11, line 36, in Claim 7, delete “ $Z' = h(t' \text{PIN}', I)$ ” and insert
-- $Z' = h(t', \text{PIN}', I)$ --, therefor.

In column 11, line 40, in Claim 7, delete “ $S' = u' \cdot (\text{PIN}'^{Z'}(\text{mod } N))$ ” and insert
-- $S' = u' \cdot (\text{PIN}')^{Z'}(\text{mod } N)$ --, therefor.

In column 12, line 29, in Claim 11, delete “ $t = (r_t \cdot r_c \cdot \text{PIN}')^e(\text{mod } N)$ ” and insert
-- $t = (r_t \cdot r_c \cdot \text{PIN}')^e(\text{mod } N)$ --, therefor.

In column 12, line 34, in Claim 11, delete “ $S = u' \cdot (r_t \cdot r_c \cdot \text{PIN}')^Z(\text{mod } N)$ ” and insert
-- $S = u' \cdot (r_t \cdot r_c \cdot \text{PIN}')^Z(\text{mod } N)$ --, therefor.

In column 14, line 4, in Claim 20, after “ $u = I^d(\text{mod } N)$ ” insert -- , --.

In column 14, line 21, in Claim 20, delete “ $t = (\text{PIN})^e(\text{mod } N)$ ” and insert
-- $t = \text{PIN}'^e(\text{mod } N)$ --, therefor.

In column 14, line 49, in Claim 21, delete “ $t = (\text{PIN})^e(\text{mod } N)$ ” and insert
-- $t' = (\text{PIN}')^e(\text{mod } N)$ --, therefor.

In column 15, line 30, in Claim 23, after “Z” insert -- , --.

In column 17, line 34, in Claim 30, after “PIN” insert -- , --.

In column 17, line 47, in Claim 31, delete “S'using” and insert -- S' using --, therefor.

In column 17, line 55, in Claim 31, after “ $S' = u' \cdot (\text{PIN}')^{Z'}(\text{mod } N)$ ” insert -- , --.

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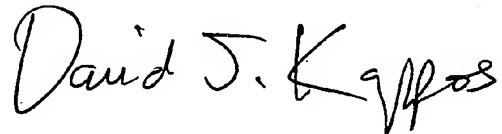
In column 18, line 14, in Claim 32, delete " $t=(r_{t1} \cdot r_c \text{PIN}')^e \pmod N$ " and insert
-- $t=(r_t \cdot r_c \cdot \text{PIN}')^e \pmod N$ --, therefor.

In column 18, line 19, in Claim 32, delete " $S=u' \cdot (r_t \cdot r_c \text{PIN}')^Z \pmod N$," and insert
-- $S=u' \cdot (r_t \cdot r_c \cdot \text{PIN}')^Z \pmod N$, --, therefor.

In column 18, line 61, in Claim 35, delete "off line" and insert -- off-line --, therefor.

Signed and Sealed this

Eleventh Day of August, 2009

A handwritten signature in black ink that reads "David J. Kappos". The signature is written in a cursive, flowing style with a large initial 'D' and a stylized 'K'.

David J. Kappos
Director of the United States Patent and Trademark Office